

IFW



*Loretta Doughty*  
*A.K.A.*

*Loretta Broshears*

4122 Cornish Dr.  
Tallahassee, FL  
32303  
1-850-345-1925

June 17<sup>th</sup> 2007

Application # 10/035,472

United States Department of Commerce  
United States Patent and Trademark Office  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Mr. Foreman,

My invention is different in many different ways:

1. The Trach Sensory Alert System is one piece, it does not run on a machine.
2. The Trach Sensory Alert has an alarm in it, and the alarm will sound when a variance of temperature is detected.
3. The sensor in the Trach Sensory Alert System is set to the patients individual body temperature, not a predetermined temperature, my design is set to the individual because not everyone's body temperature is the same.
4. The Trach Sensory Alert system is for early detection, the alarm will sound when the trach itself starts to move out of the body; with this feature the patient will not have to go through the pain of a trach being reinserted.
5. The alarm is wireless and will sound within seconds of a change in body temperature, this way when a patients trach starts to come out the alarm

*goes off notifying someone that the trash is coming out.*

*6. The sensor will be the size of a watch battery.*

*7. The sensor and the alarm are in the trash itself.*

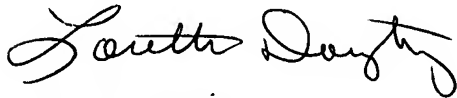
*I feel the above clearly states how my invention is different from the others ,*

*I am enclosing a product illustration that helps distinguish my invention  
from others.*

*I have done everything, I have been asked to do and then some, I have been  
trying to get my invention patented since 2000.*

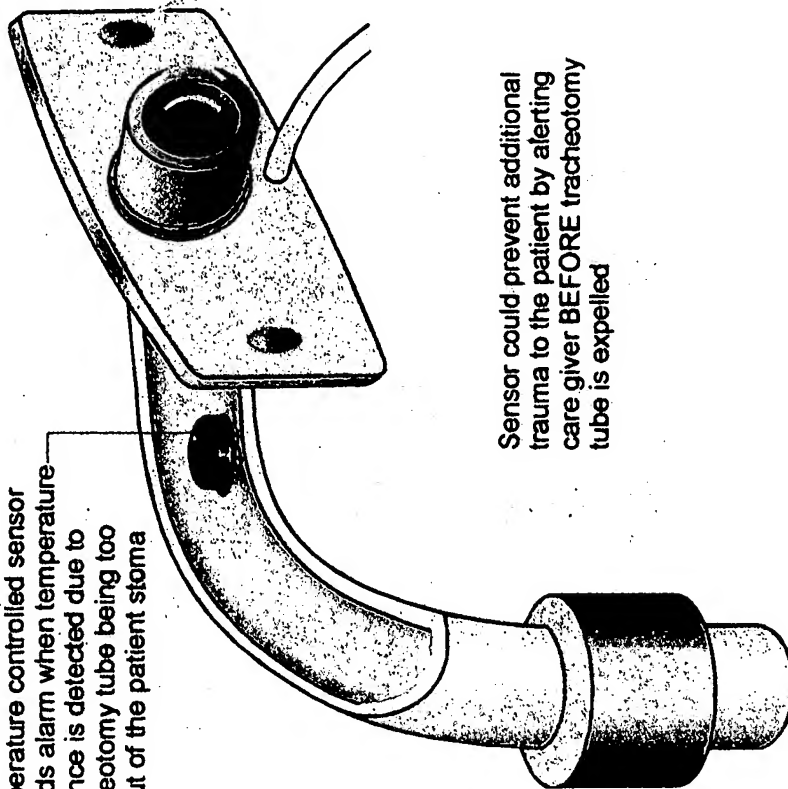
*I would greatly appreciate your help in getting my invention patented.*

*Sincerely,*

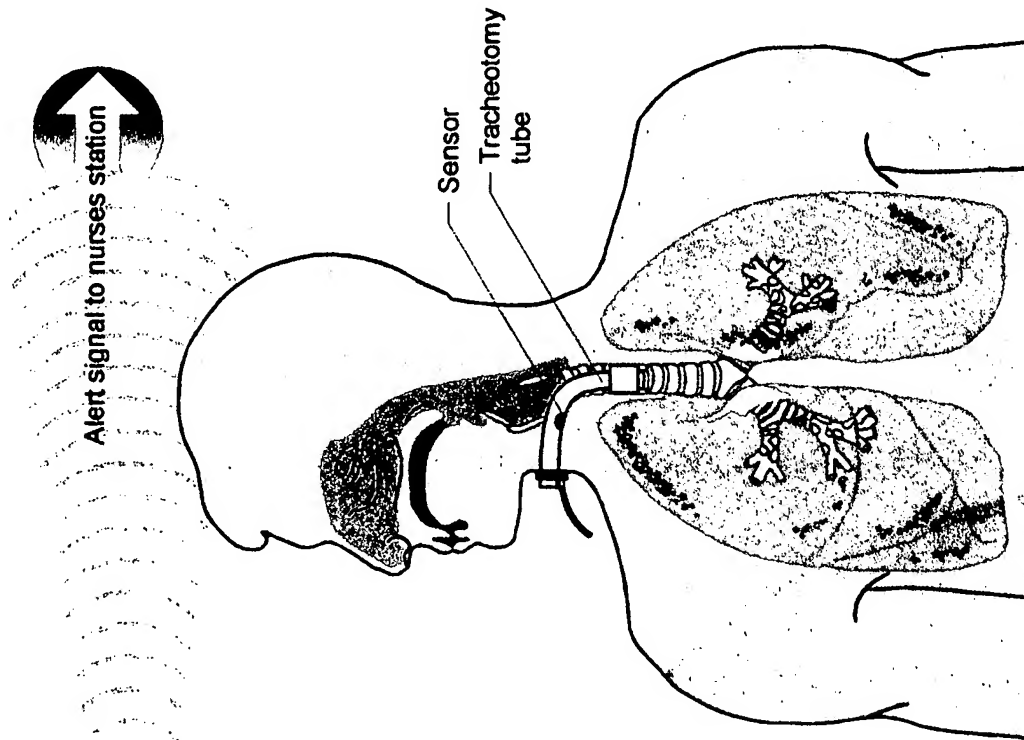
A handwritten signature in cursive script, reading "Loretta Doughty". The signature is written in black ink and is positioned above the printed name.

*Loretta Doughty*

Temperature controlled sensor  
sounds alarm when temperature  
variance is detected due to  
tracheotomy tube being too  
far out of the patient stoma



Sensor could prevent additional  
trauma to the patient by alerting  
care giver BEFORE tracheotomy  
tube is expelled



Sensor  
Tracheotomy  
tube

**PRODUCT ILLUSTRATION**  
Prepared by Product Outsourcing, LLC.

File#: 377-TP

Invention: Trach Sensory Alert

Inventor(s): Loretta S. Broshears  
Date: 08/07/00 Rev.#0 Date:



Prepared by Product Outsourcing, L.L.C. for the New Product Advisory Group

**NOTICE: THIS DOCUMENT DISCLOSING THE INVENTION OF LORETTA S. BROSHEARS HAS BEEN SUBMITTED TO THE COMMISSIONER OF PATENTS**

<b>NAME OF THIS DOCUMENT:</b> Document Disclosure/Invention Detail	<b>DATE:</b> 8/11/00
<b>INVENTOR'S NAME:</b> LORETTA S. BROSHEARS	<b>377-TP</b>
<b>INVENTION NAME:</b> TRACH SENSORY ALERT	<b>Revision: 1</b>

**INVENTION FUNCTION:** TRACH SENSORY ALERT is a medical safety device.

**SPECIFIC UNIQUE FUNCTION OR PROPERTY OF INVENTION:** TRACH SENSORY ALERT is a temperature sensitive early warning device for alerting caregivers that a trach tube is out of position.

**INVENTOR'S SUGGESTED MATERIAL AND COMPONENTS:** TRACH SENSORY ALERT would be composed of plastic and appropriate electrical-mechanical components, such as a thermometer unit for detecting body temperatures and an audible alert mechanism.

**INVENTOR COMMENTS CONCERNING THEIR INVENTION:** Many people are dependent on tracheotomy tubes in order to breathe. These tubes can move out of position and can even work their way completely out of the body. When this happens, the trach opening can close up completely, causing death through asphyxiation. Additionally, reinsertion of the trach tube is very painful and can cause bleeding. TRACH SENSORY ALERT allows the caregiver, as well as the patient, peace of mind that the trach will not come out undetected, thereby preventing the need for painful reinsertion.

**MECHANICAL DESCRIPTION:** TRACH SENSORY ALERT contains a temperature sensitive device, such as a thermometer, and an audible warning device.

**USAGE:** TRACH SENSORY ALERT would be placed at the bend of the trach to be flush with the trach's outer surface. If the trach tube begins to work its way out of the trach opening, the TRACH SENSORY ALERT would also lose contact with the body. When contact is lost with the body, a drop in body temperature occurs. When a drop in body temperature occurs within certain parameters, an audible warning is activated, thereby alerting the caregiver of the problem at an early stage before the necessity of reinsertion

# MODULUS CONSULTING

Innovation: **TRACH SENSORY ALERT**

Inventor: **Loretta S. Broshears**

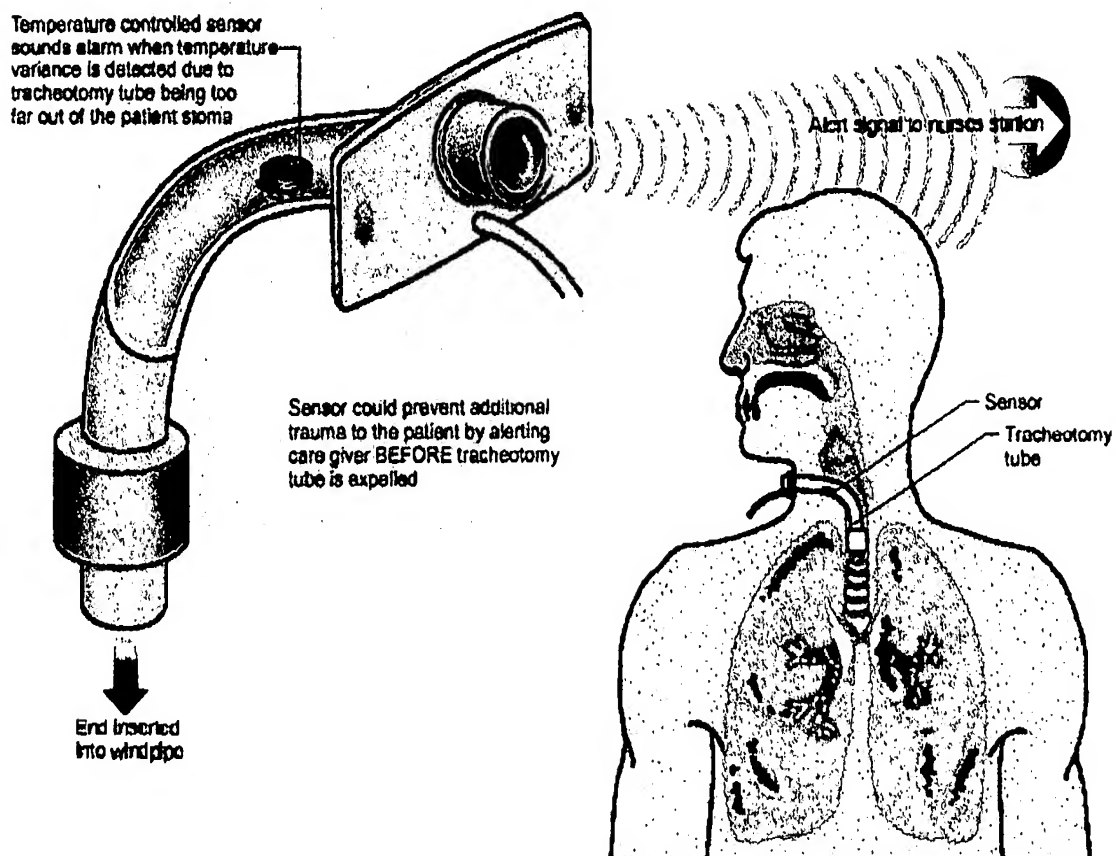
RE: 377-TP

8/21/00 & rev. 0

## PERTINENT MARKETING INFORMATION

### I - PERFORMANCE IN THE MARKET

The TRACH SENSORY ALERT is a new temperature sensitive early warning device for alerting



caregivers that a trachea tube is out of position. Many people are dependent on tracheotomy tubes in order to breathe. These tubes can move out of position and can even work their way completely out of the body. When this happens, the trachea opening can close up completely, causing death through asphyxiation. Reinsertion of the trachea tube is very painful and can cause bleeding. The TRACH SENSORY ALERT also allows the caregiver, as well as the patient, peace of mind that the trachea will not come out undetected, thereby preventing the need for painful reinsertion. In addition, this product provides overall confidence and increased safety because this multifunctional medical appliance contains a temperature indicating apparatus that interfaces with an audible warning device.<sup>1</sup>